

Application No. 10/616,238
Amendment Dated November 22, 2004
In Reply to Office Action dated July 23, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (currently amended) An oscillating piston volumetric fluid meter having a cylindrical measuring chamber (30) comprising:
 - a lateral wall (2),
 - a bottom (1) and a lid (3),
 - a lower cylinder (4) and an upper cylinder (5) having the same diameter, which is less than the diameter of said chamber (30),
 - an inlet orifice (7) and an outlet orifice (8) for respectively admitting fluid to and evacuating fluid from said chamber (30),
 - a cylindrical piston (11) disposed eccentrically and guided kinematically in said chamber (30) and effecting an oscillatory movement in said chamber (30) as a result of the displacement of a volume of fluid, and
 - a fixed partition (9) between said inlet orifice (7) and said outlet orifice (8), lying radially between said lateral wall (2) and said lower and upper cylinders (4,5), and lying axially between said bottom (1) and said lid (3), said lateral wall (2) including a vertical cavity (16) in the vicinity of said fixed partition (9), which meter is configured such that said cavity (16) is

separate from said inlet and outlet orifices and passes through said lateral wall ~~(2)~~ at least partly ~~within~~ along the height of said wall.

2. (currently amended) A volumetric meter according to claim 1 characterized in that said cavity ~~(16)~~ is on the same side of said fixed partition ~~(9)~~ as said outlet orifice ~~(8)~~.

3. (currently amended) A volumetric meter according to claim 1 characterized in that said cavity ~~(16)~~ is on the same side of said fixed partition ~~(9)~~ as said inlet orifice ~~(7)~~.

4. (currently amended) A volumetric meter according to the preceding claim characterized in that said cavity ~~(16)~~ is a vertical slot parallel to a vertical edge of said fixed partition ~~(9)~~.

5. (currently amended) A volumetric meter according to the preceding claim characterized in that said slot ~~(16)~~ is tangential to said fixed partition ~~(9)~~.

6. (currently amended) A volumetric meter according to the preceding claim characterized in that said slot ~~(16)~~ has a width less than or equal to 3 mm.

7. (currently amended) A volumetric meter according to the preceding claim

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characterized in that said lateral wall (2) includes two cavities each on either side of said fixed partition.

8. (currently amended) A volumetric meter according to the preceding claim characterized in that it includes a vertical groove (17) extending along said lower and upper cylinders (4,5), in communication with one of said inlet and outlet orifices (7,8), and in the vicinity of said fixed partition (9).

9. (currently amended) A volumetric meter according to claim 8 characterized in that said vertical groove (17) is tangential to said fixed partition (9).

10. (currently amended) A volumetric meter according to claim 8 characterized in that said vertical groove (17) has a width less than or equal to 2 mm.